

FEMP

Call for FY2001 Design Assistance Projects

The U.S. DOE Federal Energy Management Program provides technical assistance, financing assistance, education, and outreach to Federal agencies meeting energy efficiency and renewable energy goals set by legislation and Executive Order 13123. FEMP is interested in supporting projects in need of technical design assistance from Federal agencies in the following areas:

- Design of new sustainable low energy buildings;
- Energy efficiency retrofits, water efficiency, and/or renewable and distributed generation retrofits (including combined heat and power systems).

Assistance consists of screening for project opportunities, feasibility studies, procurement specifications, design review, and performance measurements. The total value of the general design assistance to be provided in FY01 is approximately \$500,000. Design assistance will be provided by DOE National Laboratories and subcontractors selected from the best energy and sustainability consultants in the country for selected Federal agency projects. If you are interested in requesting design assistance from FEMP, please complete and submit the attached form by Oct. 30, 2000. Successful applicants will be notified by Dec. 15, 2000.

New Construction Projects

For new construction, FEMP is most interested in projects where design assistance can be provided from the early conceptual design through final design. For large/complex projects, such as Federal courthouses, we will consider projects for multi-year design assistance efforts. The assistance can include:

- Development of a building program or project goal statements,
- Selection criteria for A/E's and the development of a scope of work for an A/E,
- Generation and summary of site specific hourly weather files,

- Development of a basecase model of energy use and establishment of a performance goal,
- Development of specifications for contractor energy modeling, and possible review of contractor energy modeling,
- Participation in and facilitation assistance of a meeting(s) of the design team to identify energy reduction strategies to meet the goal,
- Life cycle cost comparison of options (including glazing, lighting, HVAC) to meet energy goals for the building,
- Evaluation of renewable energy strategies for the building,
- Design and specification review.

Retrofit Projects

For energy efficiency retrofit projects, FEMP is most interested in projects where measures are bundled to achieve greater energy savings than might otherwise be considered and projects where the technical design assistance leads to projects that are financed through Energy Savings Performance Contracts (ESPCs) or Utility Energy Service Contracts (UESCs). For retrofit projects, FEMP services may include:

- Analysis of opportunities (this more detailed analysis may be provided as a follow-on to a SAVEnergy audit),
- Engineering and economic feasibility assessment or screening of opportunities (using FEMP developed software) for energy efficiency, load management, water conservation, and/or renewable measures,
- Development and/or review of specifications and other construction documents and plans,
- Life cycle costing of options for measures using the Building Life Cycle Costing software,
- Assistance with planning for measurement and verification,

continued on page 14

**FEMP
CALL FOR FY2001 DESIGN ASSISTANCE PROJECTS**
continued from page 13

- Assistance with commissioning/retrocommissioning.

Renewable Energy Projects

In E.O. 13123, renewable energy is defined as energy produced from solar, wind, geothermal, or biomass power. The value of renewable assistance from this call in FY01 is \$115,000. For renewable projects FEMP services may include:

- Engineering and economic feasibility assessment or screening of opportunities (using FEMP developed software),
- Development and/or review of specifications and other construction documents and plans,
- Life cycle costing of options for measures using the Building Life Cycle Costing software,
- Advice and assistance with planning for measurement and verification and performance measurement of installed systems.

This Call for Projects cannot be used for funding of hardware, or buy down of finance charges. Funding for successful applicants will not be transferred to agencies, rather the assistance will be provided directly by DOE national laboratories and/or FEMP contractors who will negotiate a scope of services with the successful applicants.

FEMP will use the following set of criteria to select the projects for FY01:

- **Balanced portfolio** — FEMP is interested in using this process to select a balanced portfolio of projects that include new construction, renewable energy, water conservation, energy efficiency, combined heat and power, and distributed generation. FEMP is also interested in using the available funds to seed a number of projects that collectively offer strategic value to achieving the goals of the FEMP program. The goals of the FEMP program are to reduce the cost of government by helping agencies reduce energy and water use, manage utility costs and promote renewable energy use.

Technical assistance that leads to large projects financed through Energy Savings Performance Contracts or Utility Energy Service Contracts are a priority for FEMP as well as projects that can be replicated by agencies using their own funds.

- **Project champions** — The successful applicants will document that there is a team of technical, management, and procurement staff at the facility or within the agency that are committed to making the project a success.
- **Agency support for project** — The successful applicant will demonstrate that the success of their project is significant to their agency. If, for example, the agency has designated the project an agency showcase, a project meeting their Million Solar Roofs Initiative, Wind Powering America, or some other specific agency designated goal, it would demonstrate that the agency has a vested interest in making the project a success.
- **Cost effectiveness and value** — Energy or water efficiency projects must be life-cycle cost effective according to 10CFR436 or provide a good value as an educational demonstration or experimental project. Renewable projects should be life-cycle cost effective or provide other values such as emission and greenhouse gas reductions, load management, emergency power, or demonstration. The value to the FEMP program must be clearly defined.
- **Agency funding available** — The agency must document that agency funding is available for implementation in the next two years, or establish a plan to finance the project through Energy Savings Performance Contracting or a Utility Energy Service Agreement.

The applications will be scored based on the criteria listed above. Incomplete or omitted responses to questions will lower the overall application score.

The application form can also be found on the FEMP web site: www.eren.doe.gov/femp.

FEMP Project Design Assistance Request Form FY 2001

Federal Agency Name: _____

Contact Person Name: _____

Address: _____

Phone/fax/e-mail: _____

Project Name: _____

Type of Project:

☐ New construction

☐ Energy efficiency retrofit (list ECMs) _____

☐ Renewable project (list measures) _____

☐ Water efficiency

☐ Distributed Energy Resources

Description of Design Assistance request (500 word max): _____

Estimate of level of effort needed (days): _____

Size of capital project (list size of buildings (s.f.) and /or value of construction (\$)):

Describe your agency's level of commitment to supporting this particular project: _____

Is this an agency "showcase" project? If yes, describe: _____

Is this a project supporting the Million Solar Roofs Initiative, DOE's Wind Powering America, or Geopower of the West program? ☐ If yes, describe _____

How will your agency fund or finance this project? _____

What is the unit cost and type of energy being displaced by this project?

Electricity: _____ Natural gas: _____ Propane: _____ Diesel: _____ Gasoline: _____ Other: _____

What is your annual energy cost for the building(s) or facility where the project is proposed? _____

For projects involving water efficiency, what is your annual water usage for the building or facility? _____

For projects involving water efficiency, what is the unit cost of water and sewer? Water _____ Sewer _____

If you have completed a BLCC analysis for this project or you have documented the cost of the measures and proposed savings, please attach it to your application.

Thank-you for your application!

Fax or mail this form by October 30, 2000 to: Shawn Herrera, FEMP, US Department of Energy, Forrestal Building CC-90, Washington DC, 20585, Fax: 202 586-3000.

Also please fax or e-mail a copy of the form to your FEMP regional office. Call your regional representative with questions. They include:

Central Region

Randy Jones
Phone: 303-275-4814
Fax: 303-275-4830
E-mail: randall_jones@nrel.gov

Northeast Region

Paul King
Phone: 617-565-9712
Fax: 617-565-9723
E-mail: paul.king@hq.doe.gov

Western Region

Arun Jhaveri
Phone: 206-553-2152
Fax: 206-553-2200
E-mail: arun.jhaveri@hq.doe.gov

Mid-Atlantic Region

Bill Klebous
Phone: 212-264-0691
Fax: 212-264-2272
E-mail: william.klebous@hq.doe.gov

Southeast Region

Rich Combes
Phone: 404-562-0563
Fax: 404-562-0537
E-mail: combes@hq.doe.gov

Midwest Region

Sharon Gill
Phone: 312-886-8573
Fax: 312-886-8561
E-mail: sharon.gill@hq.doe.gov

Call for FEMP Design Assistance Services Frequently Asked Questions

What is FEMP Design Assistance?

FEMP's Design Assistance is a program to expand energy efficiency and renewable energy use in Federal facilities and to provide guidance for cost-effective strategies for both new design and retrofit activities. This program includes design assistance for comprehensive "greening" activities, renewables, energy efficiency, and water-saving projects.

What specific services does FEMP Design Assistance provide to Federal Energy Managers?

FEMP's design assistance team works with Federal agency staff to develop individual solutions for their particular needs.

Examples of design assistance includes the following:

- Setting energy and water design objectives for a new or retrofit project
- Identifying technical resources for energy and water efficiency and renewable projects
- Providing technical assistance in areas where services are not readily available
- Evaluating design strategies and proposing alternatives
- Recommending commissioning and operations activities
- Evaluating energy and other performance criteria after the project is installed.

What services does FEMP Design Assistance not offer to Federal Energy Managers?

Except in special cases, the design assistance team typically does not provide services that are offered in the private sector. Basic energy services should be part of any design or retrofit project, and the design assistance team can assist Agencies in developing criteria for the selection and procurement of those services and assisting in agency review of those services.

What FEMP Design Assistance services are free and what are cost shared?

To the extent possible, FEMP offers core design assistance free of charge to Federal agencies. Because of its limited budget, FEMP Design Assistance cannot cover all the requests for services. In many cases, the agencies can cost-share with DOE for its design assistance needs. In these cases an Interagency Agreement between the agency and DOE will allow for cost-shared design assistance.

How much design assistance can I request?

A design assistance request can range from a simple question to detailed technical assistance. Quick projects can be a day or two of assistance, while more involved projects can last several months.

What criteria are used in determining which requests are supported?

All design assistance requests are evaluated on an individual basis. Criteria for acceptance include whether there is a high probability of success, the project can be replicated elsewhere and other factors described in the Call for projects.

What is the total amount of FEMP Design Assistance that will be offered through the Call Letter?

For the first year, 50% of the FEMP Design Assistance (approximately \$500,000), and 50% of FEMP Renewable Assistance (\$115,000) will be offered through the call letter. The remaining funds will be held in reserve for previously initiated projects as well as new projects that come in during the year.

What is the schedule for submitting requests for Design Assistance?

The schedule for requests is as follows:

- September 15, 2000: Notice of call letter in FEMP Focus requesting design assistance applications
- October 30, 2000: Applications due to FEMP HQ
- December 15, 2000: Awardees notified of their acceptance.

How do I request FEMP Design Assistance?

Complete the attached one-page form and send it to the address on the form.

Who can I contact if I have questions?

The DOE HQ Program Manager for FEMP Design Assistance is Shawn Herrera, 202 586-1511. Contacts in the FEMP regional offices can also answer your questions.